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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/631,351	07/31/2003	Oliver Harnack	450117-04465	3470
75	590 12/01/2004		EXAMINER	
FROMMER LAWRENCE & HAUG LLP			YU, MELANIE J	
745 FIFTH AVENUE NEW YORK, NY 10151			ART UNIT	PAPER NUMBER
TIDW TORIL,			1641	

DATE MAILED: 12/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/631,351	HARNACK ET AL.	
Office Action Summary	Examiner	Art Unit	
	Melanie Yu	1641	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	e correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) d will apply and will expire SIX (6) MONTHS fro c, cause the application to become ABANDO!	timely filed lays will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).	
Status			
<ol> <li>Responsive to communication(s) filed on 10 N</li> <li>This action is FINAL.</li> <li>Since this application is in condition for alloware closed in accordance with the practice under E</li> </ol>	s action is non-final. nce except for formal matters, p		
	expans quayio, 1000 o.b. 11,	1	
Disposition of Claims  4) ☐ Claim(s) 1-23 is/are pending in the application 4a) Of the above claim(s) is/are withdray  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) 1-23 are subject to restriction and/or	wn from consideration.		
Application Papers	`		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the drawing(s) be held in abeyance. Stion is required if the drawing(s) is c	See 37 CFR 1.85(a). Objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119		,	
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the prio application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applica rity documents have been recei u (PCT Rule 17.2(a)).	ation No ved in this National Stage	
Attachment(s)	Б		
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date</li> </ol>	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:		

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## **DETAILED ACTION**

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## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1 and 3-20, drawn to a method of attaching hydrophilic species to hydrophilic marcomolecules, classified in class 435, subclass 4.
  - II. Claims 2-20, drawn to a method comprising exposing hydrophilic macromolecules immobilized to a surface to a hydrophilic species, classified in class 435, subclass 6.
  - III. Claim 21, drawn to a nano-assembly, classified in class 436, subclass 518.
  - IV. Claims 22-23, drawn to a use of a nano-assembly, classified in class 435, subclass 288.7.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions of group I and group II are patentably distinct. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operation. The method of group I requires attaching hydrophilic macromolecules to a hydrophilic species without immobilization of the hydrophilic macromolecule, while the method of group II requires a hydrophilic macromolecule immobilized on a hydrophobic surface without an attached hydrophilic species.

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- 3. Inventions of a) each of groups I and II and b) group III are related as process of making and product made. The inventions are distinct if either or both of the following can be shown:

  (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product can be used in either the process of group I or group II.
- 4. Inventions of a) each of groups I and II and b) group IV are patentably distinct.

  Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different functions.

  The method of groups I and II require exposing hydrophilic macromolecules to a hydrophilic species, while the method of group IV requires a nanoscale element.
- 5. Inventions of group III and group IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the nano-assembly product can be used in another process such as detecting and identifying a nucleic acid.
- 6. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and these inventions have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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7. A telephone call was made to Mr. William Frommer on November 17, 2004 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie Yu whose telephone number is (571) 272-2933. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on (571) 272-0823. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Melanie Yu

Patent Examiner Art Unit 1641

LONG V. LE

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CONTER 1600

1/20/04